

PATENT

(Docket No. 12102)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

HEINZ FORSTER
ET AL

Serial No.: NEW

Filed: HERewith

For: COMPOSITE ELEMENTS
COMPRISING POLYISOCYANATE
POLYADDITION PRODUCTS

Group Art Unit: NEW

Examiner: NEW

I hereby certify that the attached correspondence is being deposited with the United States Postal Service in an envelope as "Express Mail Post Office to Addressee" addressed to Commissioner of Patents and Trademarks, Washington, D.C. 20231, on December 13, 2001.

Express Mail No. EL 900586214 US


Linda J. Cochran

PRELIMINARY AMENDMENT

BOX PATENT APPLICATIONS

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

In reference to the above-referenced patent application, please enter the following amendment and consider the accompanying remarks prior to examination thereof on the merits.

IN THE CLAIMS:

Please amend the claims as follows:

1. (amended) A composite element which has the following layer structure:
 - (i) from 2 to 20 mm of metal,

- (ii) from 10 to 300 mm of polyisocyanate polyaddition products comprising the reaction product of (a) isocyanates with (b) compounds reactive toward isocyanates in the presence of at least one inorganic acid, and at least one catalyst (d),
- (iii) from 2 to 20 mm of metal.

2. (amended) A composite element as claimed in claim 1, wherein the inorganic acid comprises phosphoric acid.

3. (amended) A composite element as claimed in claim 1, wherein said catalyst (d) comprises tertiary amines and/or metal catalysts.

4. (amended) A composite element as claimed in claim 1, wherein said compounds (b) comprises polymer polyols.

5. (amended) A composite element as claimed in claim 1, wherein said isocyanates (a) comprises MDI isocyanate components having a functionality greater than 2.

6. (amended) A composite element as claimed in claim 1, wherein said polyisocyanate polyaddition products are produced in the presence of from 1 to 50% by volume of gases (c).

7. (amended) A composite element as claimed in claim 1, wherein said polyisocyanate polyaddition products are produced in the presence of (f) blowing agents.

8. (amended) A composite element having the following layer structure:

- (i) from 2 to 20 mm of metal,
- (ii) from 10 to 300 mm of polyisocyanate polyaddition products with density from 3.0 to 1100 kg/m³ comprising the reaction product of (a) isocyanates with (b) compounds reactive toward isocyanates in the presence of at least one inorganic acid, (d) catalysts, and, optionally, of (f) blowing agents, and of from 1 to 50% by

- volume, based on the volume of the polyisocyanate polyaddition products, of at least one gas (c), and/or of (e) auxiliaries and/or additives,
- (iii) from 2 to 20 mm of metal.

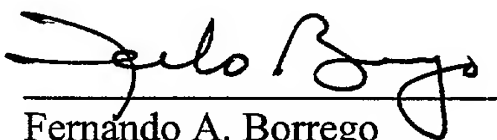
Please cancel claims 10 and 11.

REMARKS

Applicants respectfully request examination of the present application as amended herein. Claims 1-8 have been amended. Claims 10 and 11 have been cancelled. Upon entry of the above preliminary amendment, claims 1-9 remain pending in the application. A marked-up version of the amended claims is attached hereto in Appendix A. Should the Examiner have any questions, please contact the undersigned attorney.

Respectfully submitted,

Date: Dec. 13, 2001


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APPENDIX A

1. (amended) A composite element which has the following layer structure:
 - (i) from 2 to 20 mm of metal,
 - (ii) from 10 to 300 mm of polyisocyanate polyaddition products [obtainable by reacting] comprising the reaction product of (a) isocyanates with (b) compounds reactive toward isocyanates in the presence of at least one inorganic acid, and [also of] at least one catalyst (d),
 - (iii) from 2 to 20 mm of metal.
2. (amended) A composite element as claimed in claim 1 [in which], wherein the inorganic acid comprises phosphoric acid.
3. (amended) A composite element as claimed in claim 1 [in which], wherein said catalyst (d) comprises tertiary amines and/or metal catalysts.
4. (amended) A composite element as claimed in claim 1 [in which], wherein said compounds (b) comprises polymer polyols.
5. (amended) A composite element as claimed in claim 1 [in which], wherein said isocyanates (a) comprises MDI isocyanate components having a functionality greater than 2.
6. (amended) A composite element as claimed in claim 1 [obtainable by reaction], wherein said polyisocyanate polyaddition products are produced in the presence of from 1 to 50% by volume of gases (c).
7. (amended) A composite element as claimed in claim 1 [obtainable by reaction], wherein said polyisocyanate polyaddition products are produced in the presence of (f) blowing agents.
8. (amended) A composite element having the following layer structure:

- (i) from 2 to 20 mm of metal,
- (ii) from 10 to 300 mm of polyisocyanate polyaddition products with density from 3.0 to 1100 kg/m³ [obtainable by reacting] comprising the reaction product of (a) isocyanates with (b) compounds reactive toward isocyanates in the presence of at least one inorganic acid, (d) catalysts, and [also, where appropriate], optionally, of (f) blowing agents, and of from 1 to 50% by volume, based on the volume of the polyisocyanate polyaddition products, of at least one gas (c), and/or of (e) auxiliaries and/or additives,
- (iii) from 2 to 20 mm of metal.